

Claims

- [1] A ball valve, comprising:
- a first valve casing made of a thermosetting resin, comprising:
 - a first ball seat;
 - a first coupling flange provided around the first ball seat;
 - a first lever receiving part provided on a predetermined portion of the first coupling flange;
 - a first ring-shaped groove provided along both the first coupling flange and the first lever receiving part and having a semicircular cross-section;
 - a plurality of first coupling holes provided on the first coupling flange; and
 - a first stopper provided on an end of the first lever receiving part;
 - a second valve casing made of the thermosetting resin and provided to be symmetrical to the first valve casing, comprising:
 - a second ball seat;
 - a second coupling flange provided around the second ball seat;
 - a second lever receiving part provided on a predetermined portion of the second coupling flange;
 - a second ring-shaped groove provided along both the second coupling flange and the second lever receiving part and having a semicircular cross-section;
 - a plurality of second coupling holes provided on the second coupling flange; and
 - a second stopper provided on an end of the second lever receiving part;
 - a ball seated in both the first ball seat of the first valve casing and the second ball seat of the second valve casing to control a flow of a fluid;
 - a control lever coupled to the ball to control the ball, with a stop projection provided on a predetermined portion of the control lever to engage with the first and second stoppers of the first and second lever receiving parts;
 - a ring unit seated in both the first ring-shaped groove of the first valve casing and the second ring-shaped groove of the second valve casing, the ring unit comprising:
 - a first ring part seated in parts of both the first and second ring-shaped grooves provided on the first and second coupling flanges; and
 - a second ring part integrally coupled to the first ring part and seated in parts of both the first and second ring-shaped grooves provided on the first and second lever receiving parts; and

a cap fastened to both the first and second lever receiving parts.

- [2] The ball valve according to claim 1, further comprising:
an external thread provided on outer surfaces of the first and second lever receiving parts; and
an internal thread provided on an inner surface of the cap.
- [3] The ball valve according to claim 1 or 2, further comprising:
a packing and a packing support unit provided around an inner end of each of first and second through holes of the first and second valve casings.